From GF RGL to Universal Dependencies

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Universal Dependencies

- A community-based effort to uniformly annotate multilingual corpora with syntactic structure i.e. dependency parse tree
- Their vision is closely related to philosophy of GF
 - a shared representation for many languages with extensions for language specifities
- That is GF's goal during RGL design
 - we have an "abstract syntax" shared across languages (30 currently)
 - extension modules for language specific constructions
- How mutually beneficial are these two?

UDs meet GF

- How to construct dependency trees from RGL trees?
- How to construct universal dependency trees from RGL?
- What can UDs get from GF?
 - Bootstrapping parse trees for new languages in the RGL
 - Consistency checking in multilingual annotations
- What can GF get from UDs?
 - Dependency annotated corpora allow for data-driven approaches
 - The probabilistic model can be improved using the annotated corpora

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Current work

- 1 How to construct universal dependency trees from RGL?
- Comparison of the abstract syntax in RGL and UDs
 - We find a few point of difference between the two approaches
 - But, they are mostly similar, and can be uniformly converted from one to another
- Insights into constructing an "enhanced" dependency representation

Dependency-decorated abstract syntax tree

